

DIAGNOSTIC COMPOSITIONS, ELEMENTS, METHODS AND TEST
KITS FOR AMPLIFICATION AND DETECTION OF HUMAN CMV DNA
USING PRIMERS HAVING MATCHED MELTING TEMPERATURES

Abstract of the Disclosure

5 An aqueous composition containing primers
for opposing strands of human cytomegaloviral DNA and
a second target DNA can be used in polymerase chain
reaction to provide simultaneously rapid and
efficient amplification and detection of those
10 nucleic acids. The primers for each target DNA
differ in length by no more than 5 nucleotides and
have a T_m within the range of from about 65 to about
74°C, while the T_m 's are within about 5°C of each
other. Such compositions are useful in diagnostic
15 test kits and methods for amplification and detection
of hCMV DNA and other target DNA's using multiple
capture probes, in "multiplexing". All of the
capture probes have T_m 's which are greater than 50°C
and are within 15°C of each other.